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BASSA REGIONAL SERVICES PROGRAM



FISCAL YEAR 1975/76

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REGIONAL SERVICES PROGRAM
Fiscal Year 1975-76

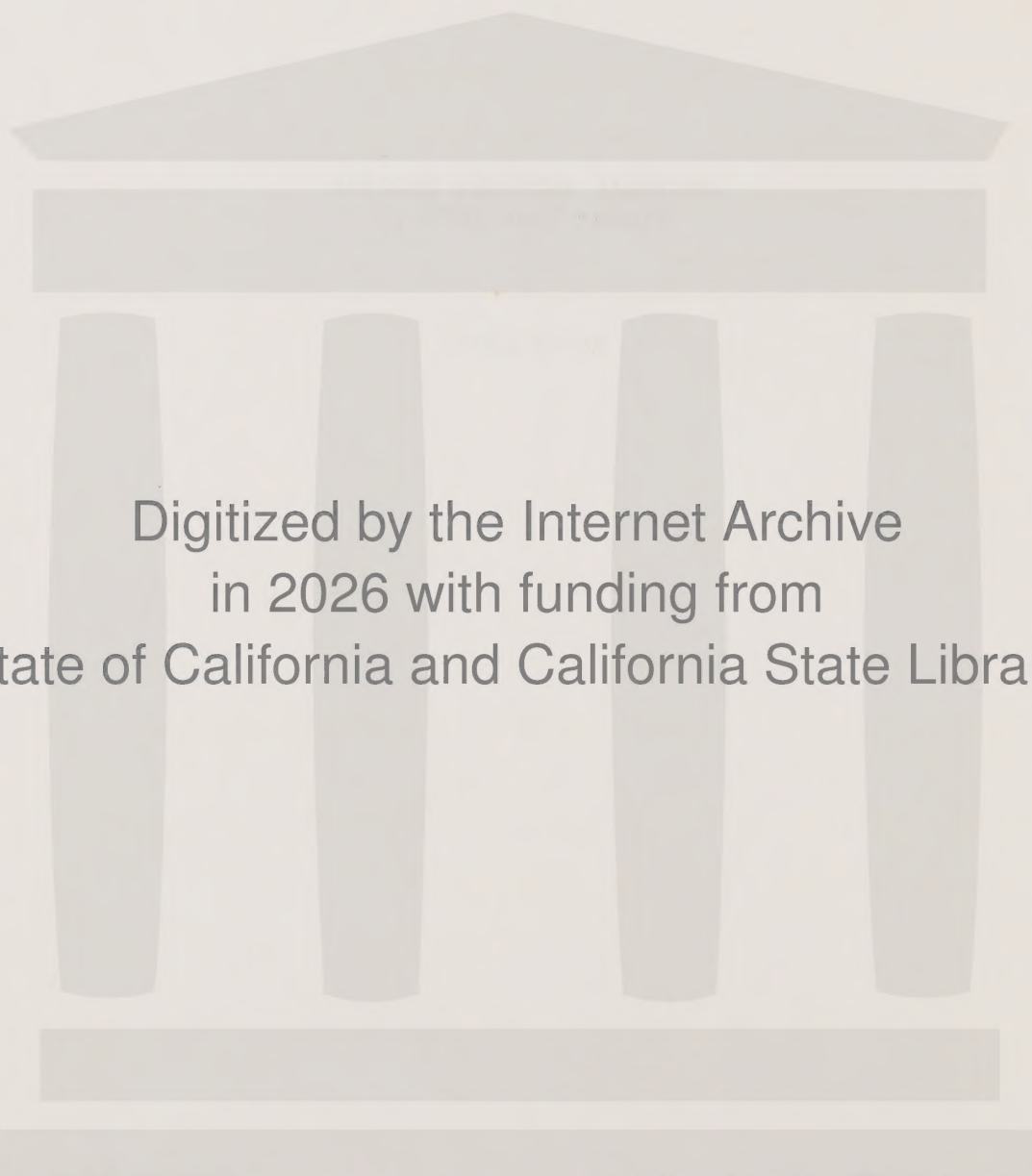
March 1975

Approved by Planning Committee:
March 12, 1975

Prepared by:
PAUL C. SOLTOW, Jr.
General Manager

Approved by Agency Board for
Budgetary Purposes:
March 19, 1975

DANIEL F. MURPHY
Chief of Planning



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BAY AREA SEWAGE SERVICES AGENCY

REGIONAL SERVICES PROGRAM

FISCAL YEAR 1975-76

General

The following program for Regional Services for fiscal year 1975-76 is herein submitted for Planning Committee consideration and Agency Board approval.

The Regional Services Program supports the overall goal of the Agency, that is, to assure planning, construction and operation of the most effective water quality management system for the San Francisco Bay Region. The Regional Services Program provides support to local and subregional agencies by providing those Services which can be best organized and implemented on a regional basis.

Regional services undertaken in FY 1974-75, the first year of the Regional Services program, included coordinated monitoring, operator training, residuals management and project coordination. These programs were developed on a reconnaissance-level basis with the assistance of advisory committees and qualified consultants. An additional program in source control of industrial wastes was developed by staff and committees of the California Water Pollution Control Association.

The proposed FY 1975-76 program continues and expands current services in addition to supporting program areas not funded in FY 1974-75. Funding levels will be approximately equal to FY 1974-75 except for commitment of funds not expended FY 1974-75. It is anticipated that availability of regional funding resources will be beneficial in attracting high levels of state and federal assistance to the Region. This proved true in FY 1974-75 when the Agency obtained its \$30,000 operator training grant. Continuation of federal support in operator training is anticipated. In addition, the outlook appears promising for support of programs in source control and other areas. The largest single source of outside subvention should be the \$500,000 regional residuals management Step I facilities planning grant which is on the State Water Resources Control Board's 1975-76 project list. The program is structured to allow for flexibility in providing necessary local matching funds as outside assistance becomes available. Projected amounts are listed as "professional services" for ease in budget presentation. It is likely that after their precise scopes have been determined, some services can best be achieved by in-house expenditure of labor and materials. In such cases, it is anticipated that appropriate transfers can be made to other services for this purpose.

Recommendations

This presentation contains supporting information for the following recommendations:

1. The concept of regional services be continued as an objective of the Agency.
2. Regional service programs, as set forth herein, be approved for inclusion in FY 1975-76 Agency budget.

Goals and Objectives of the Regional Services Program

Goals

To assist local and subregional agencies in planning, implementation and operation of water pollution control facilities which will result in an effective regional water quality management system which will

1. Protect the environment
2. Promote efficiency
3. Reclaim and reuse wastewater and residuals.

Objectives

1. Provide an efficient, coordinated monitoring program for wastewater dischargers.
2. Develop a regional approach for reclaim and reuse of highly treated wastewaters from the regional water quality management system.
3. Develop the skills of personnel involved in operation of regional water quality management facilities.
4. Plan for an efficient system to meet regional needs for safe disposal of residuals removed during waste treatment processes.
5. Coordinate and expedite planning, design and construction of the \$2 billion regional water quality facilities program.
6. Provide a centralized source of information and data relative to regional water quality management.
7. Develop approaches to solution of water quality problems arising from unsewered urban areas.
8. Assist in advancement of water pollution control technology through research and development of new methods, products and ideas of significance to the Region.
9. Promote effective control of industrial wastes.
10. Provide coordination among subregional programs and among all regulatory and implementation agencies.
11. Provide regional services needed to support subregional and local programs.
12. To have a Regional Water Quality Management Plan in force at all times with standards needed for the development and review of local and subregional implementation plans.
13. Provide liaison among local and subregional agencies and federal, state and other regional agencies and members of the general public.

14. Assist local and subregional programs as required in accordance with the Bay Area Sewage Services Agency Law.
15. Undertake and support special studies necessary for effective and progressive water quality management.
16. Develop regional approaches for control of water pollution caused by urban runoff.
17. Develop regional approaches to assist local agencies in elimination of excessive collection system flows due to infiltration and inflow.

BAY AREA SEWAGE SERVICES AGENCY
REGIONAL SERVICES AND PLANNING
March 1975

<u>Program</u>	<u>Budget 1974-75</u>	<u>Federal/State Grants</u>	<u>Total</u>	<u>Budget 1975-76</u>	<u>Federal/State Grants</u>	<u>Total</u>
Coordinated Monitoring	\$15,000		\$15,000	\$15,000		\$15,000
Reclamation/Reuse	20,000		20,000	20,000		20,000
Operator Training	10,000	\$30,000	40,000	15,000	\$10,000	25,000
Residuals Management	10,000		10,000	31,250	500,000	531,000
Project Coordination	80,000		80,000	25,000		25,000
Information Data Bank				5,000		5,000
Unsewered Areas				5,000		5,000
Urban Runoff				5,000		5,000
Applied Technology				10,000		10,000
Source Control				30,000	90,000	120,000
Infiltration/Inflow				5,000		5,000
BASSA Plan General	25,000		25,000	25,000		25,000
TOTAL	\$160,000	\$30,000	\$190,000	\$191,250	\$600,00	\$791,250

Description of Regional Services
Fiscal Year 1975-76

Coordinated Monitoring

Program objective is to coordinate wastewater monitoring in the Region to provide most effective data-gathering and evaluation system for water quality management. Initial studies undertaken in FY 1974-75 were directed toward consolidation of discharger programs required under NPDES permits. Continuing efforts will be directed toward improvement of monitoring effectiveness and development of background information. FY 1974-75 program established an advisory committee and employed a consultant for overview study. Program is proceeding into operational phase through establishment of Central Bay pilot program. Other tasks being considered include additional sampling and analysis; uniform reporting format; data retrieval and analysis; optimizing of stations and test data; background monitoring; instrumentation and automation; storage of biological specimens; improved toxicity methods; advanced monitoring techniques and remote monitoring.

Reclamation and Reuse

The program objective is to maximize reuse of wastewater as a resource of the Region. Due to time and staff limitations, this program had to be deferred in FY 1974-75. Proposed program elements include identification and solution of health hazards related to reuse of municipal effluents; determination of additional treatment required for effective reuse; evaluation of reuse of groundwater recharge, agriculture, industry, streamflow augmentation, salinity repulsion, greenbelts, aquaculture and recreation. Solution of legal and financial constraints will also be investigated.

Operator Training

The objective is the development of skills of personnel involved in operation of regional water quality management facilities. FY 1974-75 program included acquisition through \$30,000 federal grant of a unit process trainer and establishment of an operator training program. It also included a regional training needs survey. Program elements for FY 1975-76 include continuation of unit process simulator program, updating of training and personnel needs, investigation of regional programs of recruitment and placement, development of training aids and facilities and development of training programs for management-level personnel.

Residuals Management

Program is directed toward development of an efficient system for treatment and disposal of residuals removed during waste treatment processes. FY 1974-75 program consisted of survey of regional needs, Agency is on State Water Resources Control Board's project list for a \$500,000 Step I facilities planning grant which would be used to develop a recommended residuals management facilities program. Some of the tasks in this program would evaluate: transport methods; public health implications; pre-treatment, digestion and de-watering; disinfection and pasteurization; agricultural use; energy expenditure and resources; physical-chemical plant residuals disposal; industrial residuals; and environmental impacts. If the full grant is approved, matching funds must be provided from regional sources. In subsequent years, grants would be requested for needed facilities in the Project Report. Additionally, a regional funding source to provide local share of funding would be established. Preliminary discussions with EPA and the State and Regional Board staffs show general support.

Project Coordination

This service is designed to coordinate and expedite effective planning, design and construction of the \$2 billion regional facilities system which is being planned and built by local and subregional dischargers. FY 1974-75 program utilized a consultant to identify problem areas and develop a critical path time schedule for accomplishment. Additional work on demographic planning affecting sewer and plant design capacity was authorized through a contract with Association of Bay Area Governments. The FY 1975-76 program will act to implement recommendations of the consultant study and to continue demographic work through ABAG. Program elements to be included in FY 1975-76 program include planning assistance to alleviate construction bottlenecks, expedient ordering of critical materials and equipment; assist in institutional planning in complex subregions; assist regulatory agencies in coordination of actions; assist and expedite construction grant activities; seek standardization of facilities and construction; assist in right-of-way and land acquisition; expedite environment impact reporting; resolve land-use-sewer (utility-growth) conflicts and find improved means of raising local-share funds through local and regional sources.

Source Control

This program promotes effective control of industrial wastes entering community sewer systems. FY 1974-75 work has been directed toward development of a model industrial waste ordinance which has found widespread acceptance. Discussions are in the pre-proposal stage with EPA officials for grant funding. Work would be directed toward research and development of computer application for source control and safe disposal of hazardous wastes excluded from municipal systems by new, strict industrial waste ordinances. Interest is strong in the region toward development of a uniform industrial waste code; educational and training programs for industry personnel; improved inspection and monitoring; and standardization of data collection.

Unsewered Areas

This service seeks to find solutions for present and future water quality problems arising from unsewered urban areas which rely upon septic tanks. Work program activities will be carried out by staff in cooperation with regional board staff and local health officials. Activities include identification of regional trouble spots, review of septic tank current technology, review and improvement of septic tank ordinances, evaluation of methods to correct failing septic tanks, evaluation of low-cost community sewerage systems, evaluation of community septic tank management programs, development of appropriate regulations for disposal of pumpage, identifying safe disposal sites for pumpage, and evaluation of new construction techniques which minimize water usage.

Urban Runoff

The object of this program is to develop regional approaches for control of water pollution caused by runoff from urban areas. This problem has become increasingly more important as pollutants are eliminated from "point-sources," i.e. municipal sewers and industrial waste systems. Activities will be directed to investigation of location, frequencies, volume and characteristics of urban runoff; water quality impacts; mitigation and treatment measures; regional coordination of local programs; control and treatment technology; computer applications; and evaluation of potential for regional facilities.

Infiltration/Inflow

The program will develop regional approaches to assist local agencies in eliminating excess flows in collection systems due to infiltration and inflow. This problem is critical to most local system expansions because of federal grant program requirements for cost-effective control. Many agencies are initiating programs at their own cost to restore system integrity and to eliminate seasonal raw sewage overflows. FY 1975-76 activities include evaluation of problem and corrective measures throughout region; assist in development of techniques to evaluate cost-effectiveness of treatment versus line sealing; evaluation of successful construction techniques; and methods of funding corrective work.

Information Data Bank

This program should provide a central source of information and data relative to regional water quality management. Information and data collection needs will be evaluated. Attention will be given to coordination with other data and information systems including state, federal, academic and regional. Stress will be placed upon advanced methods of collection, cataloguing, storage and retrieval with emphasis upon service to local agencies.

Advanced Technology

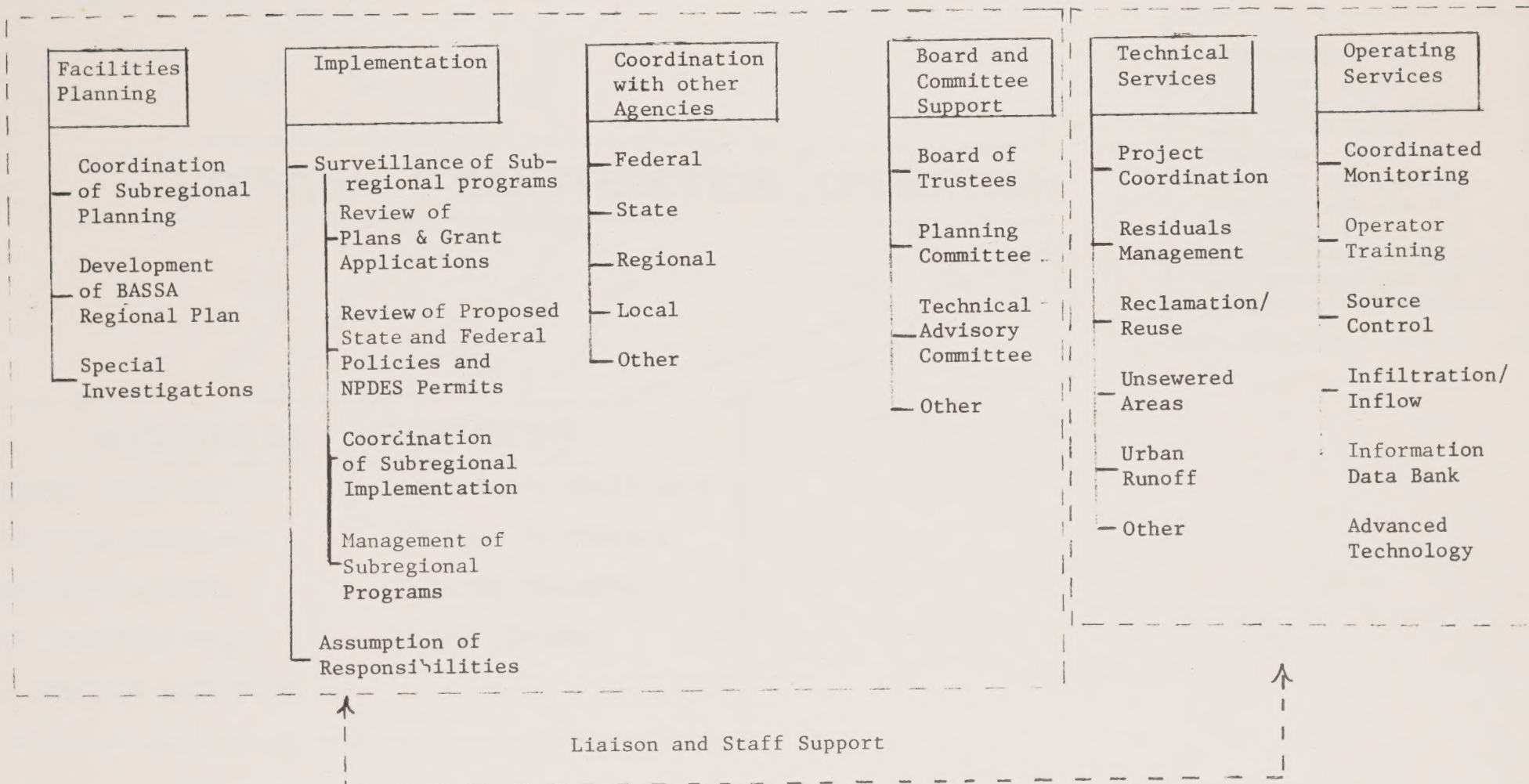
This program will assist in advancement of water pollution control technology through research and development of new methods, products and ideas of significance to the Region. Initiation of pilot programs will be especially helpful. Funding sources are varied and will depend upon nature of problem area. Potential study categories include use of computers in plant control, disinfection by means other than chlorination rapid sedimentation, flow equalization, new construction materials, sludge dewatering, digestion and long distance pumping; and pump control on multiple-plant subregional outfalls.

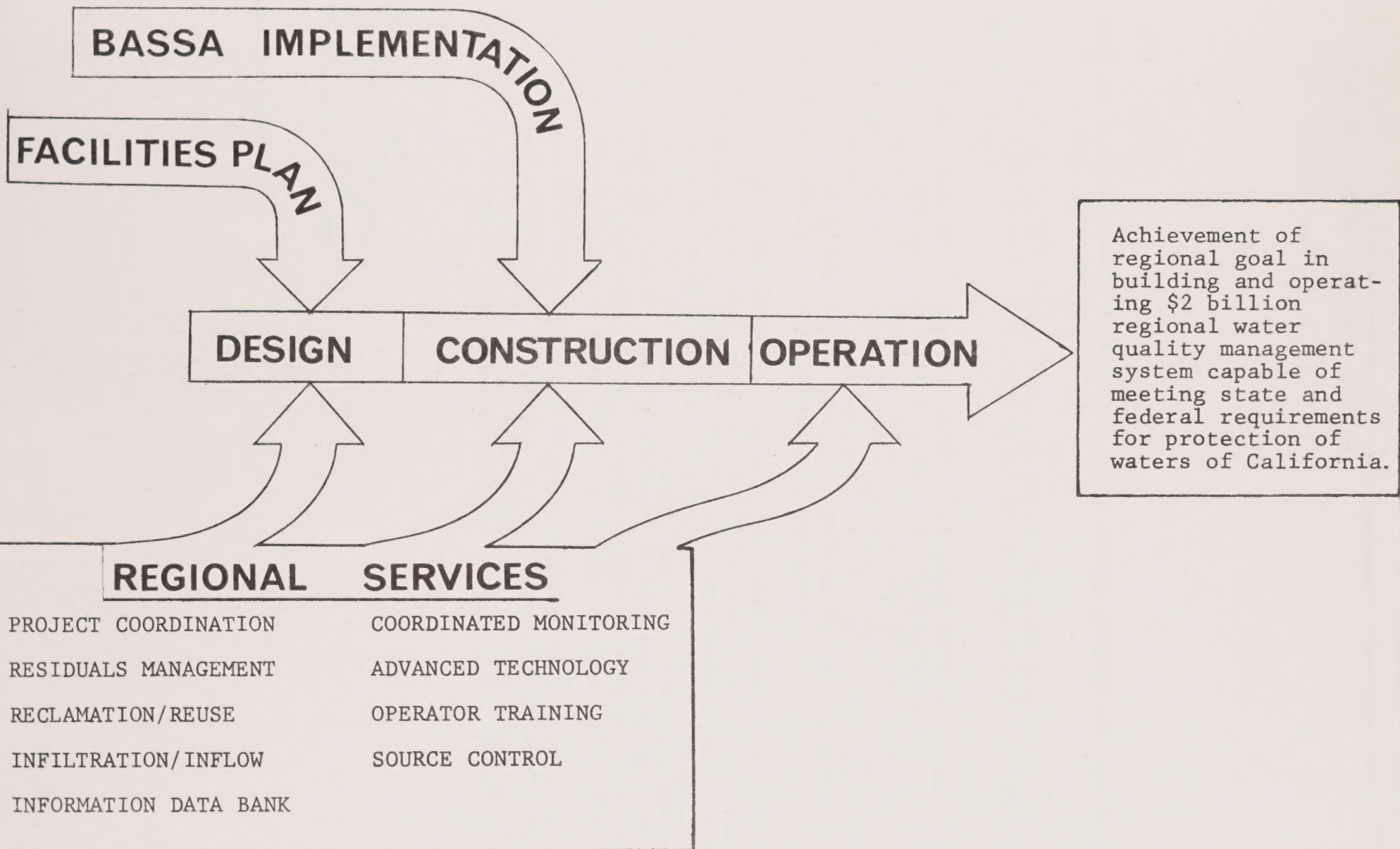
BAY AREA SEWAGE SERVICES AGENCY

Work Plan - FY 1975-76

PLANNING AND TECHNICAL SERVICES

REGIONAL SERVICES





RELATIONSHIP BETWEEN PLANNING, IMPLEMENTATION
AND REGIONAL SERVICES

STATE WATER RESOURCES CONTROL BOARD

ROOM 1015, RESOURCES BUILDING
1416 NINTH STREET • SACRAMENTO 95814



FEB 18 1975

NOTICE TO ALL AGENCIES SEEKING CLEAN WATER GRANTS IN FISCAL YEARS
1975-76 and 1976-77

The attached preliminary Project Priority List for Fiscal Years 1975-76 and 1976-77 has been prepared by the State and Regional Board staffs.

The format for the priority list is changed from previous years in that all applicants with projects in fundable priority classes (anticipated to be Classes A through D) are shown by steps. The steps are: Step 1 - Facilities Planning, Step 2 - Plans and Specifications, Step 3 - Construction. In addition, most projects are described by the water quality problem to be corrected, instead of the facilities which are proposed.

The State Water Resources Control Board will conduct a public hearing on the Priority List on March 25, 1975, in the Resources Building Auditorium, 1416 Ninth Street, Sacramento, at 10 a.m. Interested persons may present statements orally or in writing at the hearing. To the extent practicable, written statements should be submitted as far in advance of the hearing as possible, to the State Water Resources Control Board, Division of Water Quality, 1416 Ninth Street, Room 1015, Sacramento, CA 95814.

The Project Priority List for Fiscal Years 1975-76 and 1976-77 will be considered for adoption, with any modifications made necessary by written or oral presentations at the hearing, by the State Board at its regular meeting on April 17, 1975.

Sincerely,

A handwritten signature in cursive script, appearing to read 'Bill B. Dendy'.

for
Bill B. Dendy
Executive Officer

Attachment

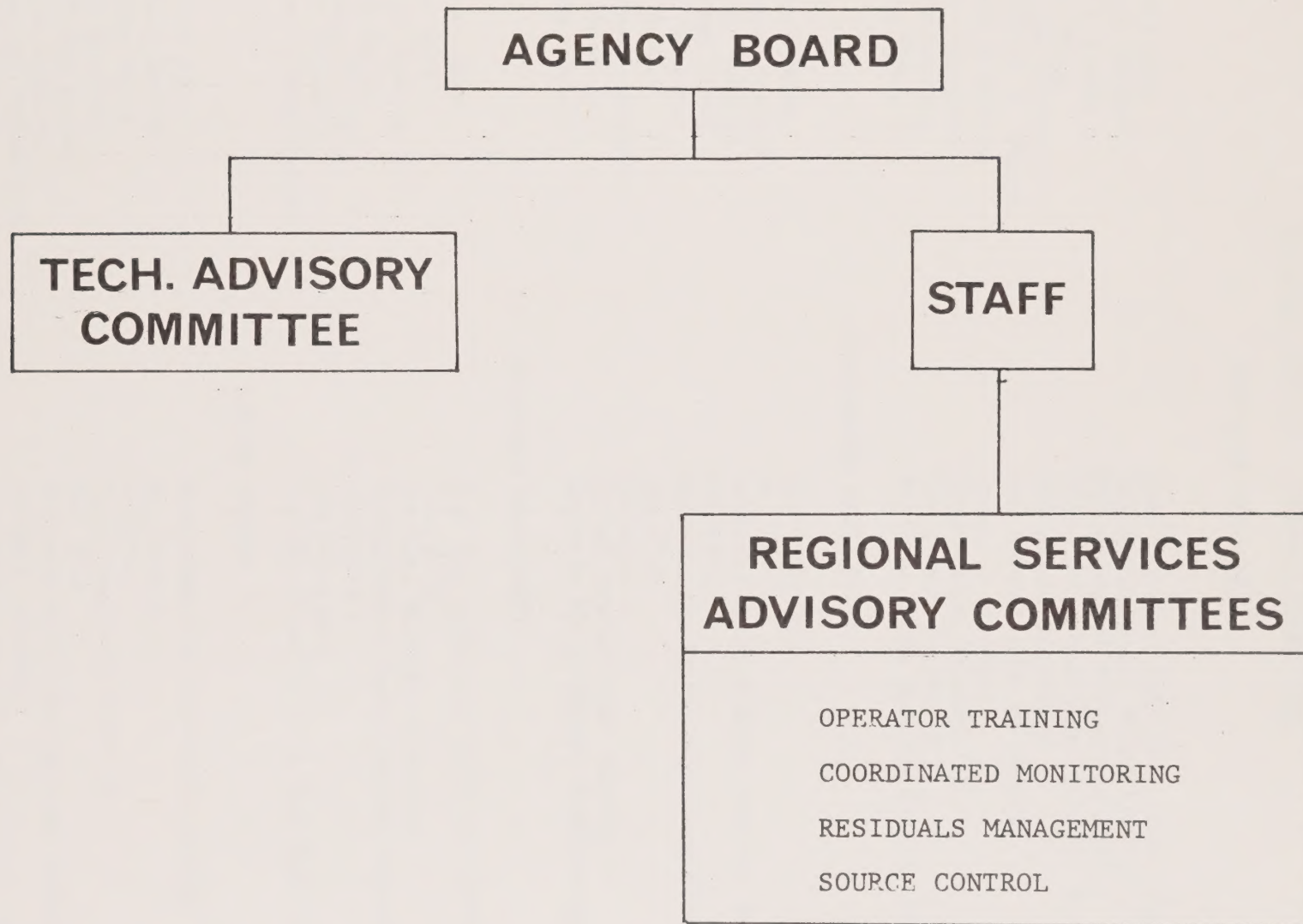
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FEB 24 1975

THE STATE WATER RESOURCES AGENCY
BERKELEY, CALIF. 94705

PRIORITY CLASS D

BASIN	AGENCY	PROJECT NO	DESCRIPTION OF PROBLEM	ESTIMATED ELIGIBLE COST BY STEP		FISCAL YEAR (AND ASSIGNED STEP)				
						75-76	76-77	77-78	78-79	79-80
1A MONTAGUE, CITY OF		1064	DISCHARGE IN VIOLATION OF BASIN 1A PROHIBITIONS	1-	4,000	1,2,3				
				2-	15,000					
				3-	200,000					
1B ANCHOR BAY COUNTY WATER DISTRICT			WDR VIOLATION-DISCHARGE PRO- HIBITION	1-	2,000	1,2,3				
				2-	10,000					
				3-	100,000					
1C CALPELLA COUNTY WATER DISTRICT		0854	WDR VIOLATION-NO DISCHARGE	1-	2,000	1,2,3				
				2-	10,000					
				3-	100,000					
1B CLOVERDALE, CITY OF		1001	WDR VIOLATIONS-CHLORINE RESIDUAL AND OTHER PARAMETERS	3-	1,000,000	3				
1B RIO DELL, CITY OF			WDR/NPDES VIOLATIONS DUE TO HIGH WINTER INFILTRATION/ INFLOW	1-	50,000	1				
2 BASSA			TREATMENT PLANT RESIDUAL SOLIDS MANAGEMENT, REGIONAL FACILITIES	1-	500,000	1				
2 EAST BAY MUD			WET WEATHER FLOW STORAGE AND TREATMENT PHASE 1	1-	400,000	1				
2 NORTH SAN MATEO COUNTY SANITATION DISTRICT			SOLIDS MANAGEMENT FOR BURLIN- GAME, MILBRAE, AND SO SAN FRANCISCO-SAN BRUNO	1-	50,000	1				
2 NORTH SAN MATEO COUNTY SANITATION DISTRICT			AERATION SYSTEM IMPROVEMENT FOR SOUTH SAN FRANCISCO-SAN BRUNO STP	1-	20,000	1				
2 SAN FRANCISCO, CITY AND COUNTY OF			SOUTHEAST PLANT IMPROVEMENTS	1-	50,000	1,2,3				
				2-	190,000					
				3-	4,000,000					

AGENCY TECHNICAL COMMITTEE ORGANIZATION



REGIONAL SERVICES ADVISORY COMMITTEES

OPERATOR TRAINING

Henry Hyde	East Bay Municipal Utilities District
Roger Bennett	California Water Pollution Control Assoc.
Bill Bishop	Environmental Protection Agency
Bob Daigh	State Water Resources Control Board
Dennis DeCoite	Montgomery Engineers
Clifford A. Sharpe	State Department of Health
Denis O'Malley	Brown & Caldwell
Dave Sullivan	Engineering Science, Inc.
John DeBoice	Montgomery Engineers
Teng-Chung Wu	Regional Water Quality Control Board

COORDINATED MONITORING

John Crafts	San Francisco
Robert Bezzant	San Mateo
Teng Chung Wu	Regional Water Quality Control Board
Norman Rubel	Pacifica
Dan McLean	East Bay Municipal Utilities District
Ed Becker	San Jose
Richard Alexander	Richmond
Al Cooksey	United States Steel Company
John Schulte	Southern Marin Sewage Services Agency

RESIDUALS MANAGEMENT

Henry Hyde	East Bay Municipal Utilities District
Ron Doty	Palo Alto
Gail Stanton	Oro Loma Sanitary District
Ted Gerow	Contra Costa County Health Department
Randy Werner	Livermore
Lou Vagadori	San Francisco
Dennis Scherzinger	Vallejo Flood Control and Sanitation District

SOURCE CONTROL

David Jones	Environmental Protection Agency
James Bewley	San Carlos
Wayne Bruce	Hayward
Nat Daniels	Union Sanitary District
William Miller	San Jose
John Schulte	Southern Marin Subregional Sewage Agency
Charles Siebenthal	Metcalf and Eddy
H. E. Stone	Bay Area League of Industrial Assoc., Inc.
F. J. Vanderschoot	San Pablo Sanitary District
Joe Lucia	Hayward
Tony Pezzi	San Francisco
Don Dalke	Regional Water Quality Control Board
John Blubaugh	State Water Resources Control Board
Helen Farnam	Sunnyvale

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